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Subject Classification
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Classification thématique
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00.00 SUMMARY OF PACS SCHEME

01.00 Communication, education, history, and philosophy
02.00 Mathematical methods in physics
03.00 Quantum mechanics, field theories, and special relativity (see also section 11 General theory of fields and particles)
04.00 General relativity and gravitation (see also 95.30.Sf in astronomy). Special relativity, see 03.30.+p
05.00 Statistical physics, thermodynamics, and nonlinear dynamical systems (see also 02.50.–r Probability theory, stochastic processes, and statistics)
06.00 Metrology, measurements, and laboratory procedures (for laser applications in metrology, see 42.62.Eh)
07.00 Instruments, apparatus, and components common to several branches of physics and astronomy

10.00 THE PHYSICS OF ELEMENTARY PARTICLES AND FIELDS

11.00 General theory of fields and particles
12.00 Specific theories and interaction models; particle systematics
13.00 Specific reactions and phenomenology
14.00 Properties of specific particles

20.00 NUCLEAR PHYSICS

21.00 Nuclear structure
23.00 Radioactive decay and in-beam spectroscopy
24.00 Nuclear reactions: general
25.00 Nuclear reactions: specific reactions
26.00 Nuclear astrophysics
27.00 Properties of specific nuclei listed by mass ranges
28.00 Nuclear engineering and nuclear power studies
29.00 Experimental methods and instrumentation for elementary-particle and nuclear physics

30.00 ATOMIC AND MOLECULAR PHYSICS

31.00 Electronic structure of atoms and molecules: theory
32.00 Atomic properties and interactions with photons
33.00 Molecular properties and interactions with photons
34.00 Atomic and molecular collision processes and interactions
36.00 Exotic atoms and molecules; macromolecules; clusters
39.00 Instrumentation and techniques for atomic and molecular physics

40.00 ELECTROMAGNETISM, OPTICS, ACOUSTICS, HEAT TRANSFER, CLASSICAL MECHANICS, AND FLUID MECHANICS

41.00 Electromagnetism; electron and ion optics
42.00 Optics
43.00 Acoustics

44.00 Heat transfer
45.00 Classical mechanics of discrete systems
46.00 Continuum mechanics of solids (see also 83.10.Ff in rheology)
47.00 Fluid dynamics

50.00 PHYSICS OF GASES, PLASMAS, AND ELECTRIC DISCHARGES

51.00 Physics of gases
52.00 Physics of plasmas and electric discharges

60.00 CONDENSED MATTER: STRUCTURAL, MECHANICAL AND THERMAL PROPERTIES

61.00 Structure of solids and liquids; crystallography
62.00 Mechanical and acoustical properties of condensed matter
63.00 Lattice dynamics
64.00 Equations of state, phase equilibria, and phase transitions
65.00 Thermal properties of condensed matter
66.00 Transport properties of condensed matter (nonelectronic)
67.00 Quantum fluids and solids; liquid and solid helium
68.00 Surfaces and interfaces; thin films and low-dimensional systems (structure and nonelectronic properties)

70.00 CONDENSED MATTER: ELECTRONIC STRUCTURE, ELECTRICAL, MAGNETIC, AND OPTICAL PROPERTIES

71.00 Electronic structure of bulk materials
72.00 Electronic transport in condensed matter
73.00 Electronic structure and electrical properties of surfaces, interfaces, thin films, and low-dimensional structures
74.00 Superconductivity
75.00 Magnetic properties and materials
76.00 Magnetic resonances and relaxations in condensed matter, Mössbauer effect
77.00 Dielectrics, piezoelectrics, and ferroelectrics and their properties
78.00 Optical properties, condensed-matter spectroscopy and other interactions of radiation and particles with condensed matter
79.00 Electron and ion emission by liquids and solids; impact phenomena

80.00 INTERDISCIPLINARY PHYSICS AND RELATED AREAS OF SCIENCE AND TECHNOLOGY

81.00 Materials science
82.00 Physical chemistry and chemical physics
83.00 Rheology
84.00 Electronics; radiowave and microwave technology; direct energy conversion and storage
85.00 Electronic and magnetic devices; microelectronics
87.00 Biological and medical physics
89.00 Other areas of applied and interdisciplinary physics

90.00 GEOPHYSICS, ASTRONOMY, AND ASTROPHYSICS

91.00 Solid Earth physics
92.00 Hydrospheric and atmospheric geophysics
93.00 Geophysical observations, instrumentation, and techniques
94.00 Aeronomy and magnetospheric physics
95.00 Fundamental astronomy and astrophysics; instrumentation, techniques, and astronomical observations
96.00 Solar System
97.00 Stars
98.00 Stellar systems; interstellar medium; galactic and extragalactic objects and systems; the Universe

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